

# C#165

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132

(425) 420-9200 FAX 420-9210 (509) 924-9

FAX 924-9290 (503) 906-9200

FAX 906-9210 (541) 383-9310 FAX 382-7588

20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 CHAIN OF CUSTODY REPORT

Work Orden #.

REPORT TO: A MARE   Northern to the Note	CLIENT: Brishol												OFK	Ort	ier#: ,	TIN	07	025		
REPORT TO A MARKE MICHAEL PRAY.  ADDRESS: A MICHAEL WE HE FIX.  PHONE 90 770 - 0974 FAX: 70 - 0975  PROJECT NAME: A MICHAEL PRAY.  PROJECT NAME: A MICHAEL PRAY.  CLIENT SAMPLED BY (LEM. / AT. )  CLI	CLIENT: DWGGO				INV	OICE T	o: [.	Snis	tol										Business I	Davs*
ADDRESS: A MChither Island, Ah  PHONE 907 770-0974 PAX: 770-0975 PD. NUMBER: 2/090  PROJECT NAME: A MChither Tologo  SAMPLED BY: (IChan ATL)  CLIENT SAMPLED BY: (IChan ATL)  DIENTIFICATION  DATETING  3 2 1 1 1  STD.  FROME Specify  PROSES Specify  PROSE S	REPORT TO: Anne Kvantue Her																			-4,5
PRONE 407 770 - 047 4	ADDRESS: Amchitha Island H	~													10	7 5	4	3	2 1	<1
PROJECT NAME:   A															STD.	Petrole	eum Hyc	drocarbon An:		
PROJECT NUMBER: 21040   SAMPLING   SAMPLING   SAMPLING   DATE TIME   SAMPLING   SAMPLI	PROJECT NAME: A FAX:	170	-09	75	P.O. J							·			1 [					
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PRINT NAME: Churche Marshall FIRM: Dr. s-0 TIME: 634 PRINT NAME: Stephen Will-FIRM: JCA TIME: 1634  PRINT NAME: RECEIVED BY: DATE: RECEIVED BY: DATE: ADDITIONAL RF "KS:  ADDITIONAL RF "KS: TIME: PRINT NAME: FIRM: TIME: PRINT NAME: PRI	RELINQUISHED BY:				DATE:	7/17	101	DECE	WED DI	. /	1		0							
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425.420.9200 fax 425.420.9210

Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/12/01 16:34. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

**Environmental Group Leader** 

1112

Work Orders included in this report:

M107025



425.420.9200 fax 425.420.9210

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503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

**Reported:** 10/23/01 14:26

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMC526SL-B	M107025-01	Soil	07/12/01 15:30	07/12/01 16:34
01AMC527SL	M107025-02	Soil	07/12/01 15:35	07/12/01 16:34
01AMC528SL	M107025-03	Soil	07/12/01 15:40	07/12/01 16:34
01AMC529SL	M107025-04	Soil	07/12/01 15:45	07/12/01 16:34

COC #165

North Creek Analytical - Mobile Lab



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509.924.9200 fax 509.924.9290

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

10/23/01 14:26

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

# Gasoline Range Organics (n-Hexane to <n-Decane) per AK101 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC526SL-B (M107025-01) Soil					Sampled: 07/	/12/01 Rece	eived: 07/12/	01	
Gasoline Range Organics	ND	9.59	mg/kg dry	50	AK 101	07/13/01	07/13/01	0107053	
Surr: 4-BFB (FID)	77.1 %	70-120							
01AMC527SL (M107025-02) Soil					Sampled: 07/	/12/01 Rece	eived: 07/12/	01	
Gasoline Range Organics	ND	7.09	mg/kg dry	50	AK 101	07/13/01	07/13/01	0107053	
Surr: 4-BFB (FID)	72.7 %	70-120							
01AMC528SL (M107025-03) Soil					Sampled: 07/	/12/01 Rece	eived: 07/12/	01	
Gasoline Range Organics	ND	6.97	mg/kg dry	50	AK 101	07/13/01	07/13/01	0107053	
Surr: 4-BFB (FID)	70.4 %	70-120							
01AMC529SL (M107025-04) Soil					Sampled: 07/	/12/01 Rece	eived: 07/12/	01	
Gasoline Range Organics	ND	20.2	mg/kg dry	50	AK 101	07/13/01	07/13/01	0107053	
Surr: 4-BFB (FID)	88.2 %	70-120							

North Creek Analytical - Mobile Lab



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503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

10/23/01 14:26

# Diesel Hydrocarbons (C10-C25) per AK102 North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC526SL-B (M107025-01) Soil					Sampled: 07	/12/01 Rece	eived: 07/12/	01	
<b>Diesel Range Organics</b>	996	150	mg/kg dry	1	AK 102	07/12/01	07/13/01	0107051	D-16
Surr: 1-Chlorooctadecane	69.0 %	50-150							
Surr: Triacontane	92.8 %	50-150							
01AMC527SL (M107025-02) Soil					Sampled: 07	/12/01 Rece	eived: 07/12/	01	
<b>Diesel Range Organics</b>	367	150	mg/kg dry	1	AK 102	07/12/01	07/13/01	0107051	D-16
Surr: 1-Chlorooctadecane	75.6 %	50-150							
Surr: Triacontane	104 %	50-150							
01AMC528SL (M107025-03) Soil					Sampled: 07	/12/01 Rece	eived: 07/12/	01	
<b>Diesel Range Organics</b>	523	150	mg/kg dry	1	AK 102	07/12/01	07/13/01	0107051	D-16
Surr: 1-Chlorooctadecane	69.3 %	50-150							
Surr: Triacontane	98.9 %	50-150							

North Creek Analytical - Mobile Lab



Reported:

10/23/01 14:26

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503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter

# BTEX,MTBE and Naphthalene per EPA Method 8021B North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC526SL-B (M107025-01) Soil					Sampled: 07/	/12/01 Rece	eived: 07/12/	01	
Benzene	ND	0.0599	mg/kg dry	50	!1B BTEX/MT	ΓΙ 07/13/01	07/13/01	0107053	
Toluene	ND	0.240	"	"	"	"	"	"	
Ethylbenzene	ND	0.240	"	"	"	"	"	"	
Xylenes (total)	ND	0.479	"	"	"	"	"	"	
Naphthalene	ND	2.40	"	"	"	"	"	"	A-01
Surr: 4-BFB	80.4 %	50-150							
01AMC527SL (M107025-02) Soil					Sampled: 07/	/12/01 Rece	eived: 07/12/	01	
Benzene	ND	0.0443	mg/kg dry	50	!1B BTEX/MT	ΓΙ 07/13/01	07/13/01	0107053	
Toluene	ND	0.177	"	"	••	"	"	"	
Ethylbenzene	ND	0.177	"	"	"	"	"	"	
Xylenes (total)	ND	0.355	"	"	"	"	"	"	
Naphthalene	ND	1.77	"	"	"	"	"	"	A-01
Surr: 4-BFB	73.2 %	50-150							
01AMC528SL (M107025-03) Soil					Sampled: 07/	/12/01 Rece	eived: 07/12/	01	
Benzene	ND	0.0435	mg/kg dry	50	!1B BTEX/MT	Π 07/13/01	07/13/01	0107053	
Toluene	ND	0.174	"	"	"	"	"	"	
Ethylbenzene	ND	0.174	"	"	"	"	"	"	
Xylenes (total)	ND	0.348	"	"	"	"	"	"	
Naphthalene	ND	1.74	"	"	"	"	"	"	A-01
Surr: 4-BFB	77.6 %	50-150							
01AMC529SL (M107025-04) Soil					Sampled: 07/	/12/01 Rece	eived: 07/12/	01	
Benzene	ND	0.127	mg/kg dry	50	!1B BTEX/MT		07/13/01	0107053	
Toluene	ND	0.506	"	"	"	"	"	"	
Ethylbenzene	ND	0.506	"	"	"	"	"	"	
Xylenes (total)	ND	1.01	"	"		"	"	"	
Naphthalene	ND	5.06	"	"	"	"	"	"	A-01
Surr: 4-BFB	93.7 %	50-150							

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210

**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 509.924.9200 fax 509.924.9290

Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

**Reported:** 10/23/01 14:26

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

# Physical Parameters per APHA/ASTM/EPA Methods North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit Units	Dilution	Method Prepared Analyzed Batch Note
01AMC526SL-B (M107025-01) Soil				Sampled: 07/12/01 Received: 07/12/01
% Solids	77.8	0.0100 % by Weigh	nt 1	Gravimetric 07/12/01 07/13/01 0107054
01AMC527SL (M107025-02) Soil				Sampled: 07/12/01 Received: 07/12/01
% Solids	78.2	0.0100 % by Weigh	nt 1	Gravimetric 07/12/01 07/13/01 0107054
01AMC528SL (M107025-03) Soil				Sampled: 07/12/01 Received: 07/12/01
% Solids	79.5	0.0100 % by Weigl	nt 1	Gravimetric 07/12/01 07/13/01 0107054
01AMC529SL (M107025-04) Soil				Sampled: 07/12/01 Received: 07/12/01
% Solids	100	0.0100 % by Weigh	nt 1	Gravimetric 07/12/01 07/13/01 0107054

North Creek Analytical - Mobile Lab



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503.906.9200 fax 503.906.9210 **Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

er: 21090 Reported:

%REC

RPD

Anchorage, AK 99502-1116 Project Manager: Anne Kranawetter 10/23/01 14:26

Reporting

## Gasoline Range Organics (n-Hexane to <n-Decane) per AK101 - Quality Control

### **North Creek Analytical - Mobile Lab**

Spike

Source

		r	~ F						
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0107053 - MeOH Extraction									
Blank (0107053-BLK1)			Prepare	d & Analy	zed: 07/1	3/01			
Gasoline Range Organics	ND	4.00 mg/kg wet							
Surr: 4-BFB (FID)	2.38	"	2.50		95.2	70-120			
LCS (0107053-BS2)			Prepare	d & Analy	zed: 07/1	3/01			
Gasoline Range Organics	28.3	4.00 mg/kg wet	25.0		113	50-150			
Surr: 4-BFB (FID)	9.60	"	10.0		96.0	70-120			

North Creek Analytical - Mobile Lab



%REC

425.420.9200 fax 425.420.9210 **Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

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Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132

503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

78.0

103

50-150

50-150

Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reporting

**Reported:** 10/23/01 14:26

RPD

Anchorage, AK 99502-1116

Surr: 1-Chlorooctadecane

Surr: Triacontane

Project Manager: Anne Kranawetter

#### Diesel Hydrocarbons (C10-C25) per AK102 - Quality Control

### **North Creek Analytical - Mobile Lab**

Spike

Source

		P	~ F						
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0107051 - 3545 ASE									
Blank (0107051-BLK1)			Prepare	ed: 07/12/0	1 Analyz	ed: 07/13/0	)1		
Diesel Range Organics	ND	150 mg/kg wet							
Surr: 1-Chlorooctadecane	16.0	"	23.7		67.5	50-150			
Surr: Triacontane	22.0	"	23.5		93.6	50-150			
LCS (0107051-BS1)			Prepare	ed: 07/12/0	1 Analyz	ed: 07/13/0	)1		
Diesel Range Organics	1480	150 mg/kg wet	1250		118	75-125			
Surr: 1-Chlorooctadecane	19.0	"	23.7		80.2	50-150			
Surr: Triacontane	24.7	"	23.5		105	50-150			
LCS Dup (0107051-BSD1)			Prepare	ed: 07/12/0	1 Analyz	ed: 07/13/0	)1		
Diesel Range Organics	1410	150 mg/kg wet	1250		113	75-125	4.84	20	

Surr: 1-Chlorooctadecane	19.0	"	23.7		80.2	50-150
Surr: Triacontane	23.0	"	23.5		97.9	50-150
Matrix Spike (0107051-MS1)	Source: I	M107025-03	Prepared:	07/12/01	Analyz	ed: 07/13/01
Diesel Range Organics	2280	150 mg/kg dry	1560	523	113	60-140

29.5

29.2

23.0

30.2

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

10/23/01 14:26

#### BTEX,MTBE and Naphthalene per EPA Method 8021B - Quality Control

## **North Creek Analytical - Mobile Lab**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 0107053 - MeOH Extraction	ı					
Blank (0107053-BLK1)			Prepared &	Analyzed: 07/13	3/01	
Benzene	ND	0.0250 mg/kg w	/et			
Toluene	ND	0.100 "				
Ethylbenzene	ND	0.100 "				
Xylenes (total)	ND	0.200 "				
Naphthalene	ND	1.00 "				A-01
Surr: 4-BFB	2.47	"	2.50	98.8	50-150	
LCS (0107053-BS1)			Prepared &	Analyzed: 07/13	3/01	
Benzene	2.25	0.0250 mg/kg w	vet 2.50	90.0	69-138	
Toluene	2.41	0.100 "	2.50	96.4	53-151	
Ethylbenzene	2.39	0.100 "	2.50	95.6	61-141	
Xylenes (total)	7.33	0.200 "	7.50	97.7	62-141	
Naphthalene	3.16	1.00 "	2.50	126	65-135	A-01
Surr: 4-BFB	2.61	"	2.50	104	50-150	

North Creek Analytical - Mobile Lab



425.420.9200 fax 425.420.9210 **Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776

509.924.9200 fax 509.924.9290

**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132 503.906.9200 fax 503.906.9210

Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported:

10/23/01 14:26

Project Manager: Anne Kranawetter

#### **Notes and Definitions**

A-01 Acceptance criteria for CCV are exceeded high. Sample results are non detect and not affected. DoD QSM Draft 5.9.4.2.E.1

D-16 Detected hydrocarbons in the diesel do not have a distinct diesel pattern and may be due to heavily weathered diesel.

DET Analyte DETECTED

Anchorage, AK 99502-1116

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

## **Items for Project Manager Review**

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			Report recreated from:
			\\sisters\elmnt\Report\M107025 FINAL 10 23 01
			1426.mdb
0107053-BLK1	8021B BTEX/MTBE/N	Naphthalene	A-01
0107053-BLK1	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
0107053-BS1	8021B BTEX/MTBE/N	Naphthalene	A-01
0107053-BS2	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107025-01	8021B BTEX/MTBE/N	Naphthalene	A-01
M107025-01	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107025-01	AK102 (DRO)	Diesel Range Organics	D-16
M107025-02	8021B BTEX/MTBE/N	Naphthalene	A-01
M107025-02	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107025-02	AK102 (DRO)	Diesel Range Organics	D-16
M107025-03	8021B BTEX/MTBE/N	Naphthalene	A-01
M107025-03	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107025-03	AK102 (DRO)	Diesel Range Organics	D-16
M107025-04	8021B BTEX/MTBE/N	Naphthalene	A-01
M107025-04	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported